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### AMENDMENTS TO THE CLAIMS

#### Claim 1 (Currently amended)

A process for converting a wax, having hydrocarbons primarily within  $C_{24} - C_{110}$  with essentially no sulfur or nitrogen content, to an isoparaffinic lube basestock, comprising:

first, passing the wax and a hydrogen co-feed over a unidimensional molecular sieve catalyst comprising a unidimensional intermediate pore molecular sieve with near circular pore structures having an average diameter of 0.50 nm to 0.65 nm wherein the difference between a maximum diameter and a minimum diameter is  $\leq 0.05$  nm and one or more Group VIII metals to form an intermediate product; and

second, passing the intermediate product over a Beta catalyst comprising a zeolite Beta and one or more Group VIII metals; to form the isoparaffinic lube basestock having a pour point between  $-9^{\circ}\text{C}$  and  $-54^{\circ}\text{C}$ , a viscosity index between about 165 and 136, a kinematic viscosity at  $100^{\circ}\text{C}$  between about 6 and 5 cSt in a yield between about 59 and 20 wt% based on feed.

2. (Currently amended) A process according to claim 1, wherein the wax comprises about 5 wt% to about 80 wt% of a  $1,100^{\circ}\text{F}+$  fraction, based on the total weight of the wax;

the unidimensional molecular sieve catalyst is kept at a temperature of ~~500 to  $800^{\circ}\text{F}$  ( $260$  to  $427^{\circ}\text{C}$ )~~; 600 to  $700^{\circ}\text{F}$  ( $316$  to  $371^{\circ}\text{C}$ )

the Beta catalyst is kept at a temperature of ~~400 to  $700^{\circ}\text{F}$  ( $204$  to  $371^{\circ}\text{C}$ )~~; 500 to  $600^{\circ}\text{F}$  ( $260$  to  $316^{\circ}\text{C}$ )

the wax is passed over the unidimensional molecular sieve catalyst at a feed liquid hourly space velocity of  ~~$0.1$  to  $10\text{ h}^{-1}$~~ ;  $0.5$  to  $2\text{ h}^{-1}$

the intermediate product is passed over the Beta catalyst at a feed liquid hourly space velocity of  ~~$0.1$  to  $10\text{ h}^{-1}$~~   $0.5$  to  $2\text{ h}^{-1}$ ;

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the process further comprises less than about 1,500 psig (102 atm) hydrogen, wherein the hydrogen is circulated at ~~100 to 10,000 scf/bbl (18 to 1780 n.L.L.<sup>-1</sup>)~~ 1,000 to 6,000 scf/bbl (178 to 1068 n.L.L.<sup>-1</sup>).

3. (Cancelled)

4. (Currently amended) A process according to claim 3 1, wherein the Group VIII metal on said catalysts is at least one member selected from the group consisting of Pt and Pd; and the unidimensional molecular sieve catalyst is ZSM-48 with a Alpha value of 10 to 50 prior to the metal incorporation.

5. (Currently amended) A process according to claim 3 4, wherein

the wax has a 1,000°F+ high temperature tail;

the ZSM-48 is loaded with about 0.5 wt% to about 1 wt% of the Group VIII metal, based on the total weight of the ZSM-48;

the Zeolite Beta has an Alpha value less than about 15 prior to loading with the Group VIII metal;

the Zeolite Beta is loaded with about 0.5 wt% to about 1 wt% of the Group VIII metal, based on the total weight of the Zeolite Beta; and

the Group VIII metal is at least one member selected from the group consisting of Pt and Pd.

6. (Original) A process according to claim 5, wherein

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the Beta catalyst is PT/Beta; and

the Pt/ZSM-48 and the Pt/Beta are in a cascaded two-bed catalyst system comprising a first bed followed by a second bed, wherein the first bed comprises the Pt/ZSM-48 catalyst and the second bed comprises the Pt/Beta catalyst.

7. (Original) A process according to claim 6, wherein the temperature of the first bed and the temperature of the second bed are controlled independently; and

the intermediate product is cascaded directly to the second bed.

Claims 8-11 (Cancelled)

12. (Original) A process according to claim 1, wherein the passing of the wax and the intermediate product over said catalysts is conducted under conditions sufficient to form an isoparaffinic lube basestock with a viscosity index of at least 150 at a -20°C lube pour point and a viscosity index of at least 130 at a pour point of no more than -50°C.

13. (Original) A process according to claim 5, wherein the passing of the wax and the intermediate product over said catalysts is conducted under conditions sufficient to form an isoparaffinic lube basestock with a viscosity index of at least 150 at a -20°C lube pour point and a viscosity index of at least 130 at a pour point of no more than -50°C.